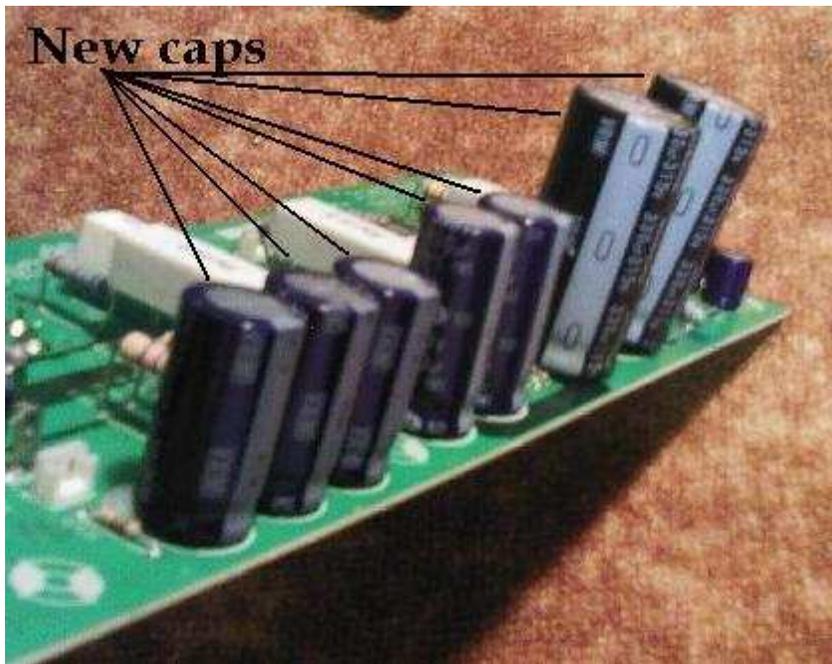


Marshall DSL-100 Mother Board REPAIR

VICTOR SOTO 12/08

After Several attempts to fix this amp and its Bias problem, I decided to follow JC's steps since I was having the same exact problem. I even tried replacing things that seemed not too related with the bias circuit, one never knows.

1st off, I replaced all electrolytic caps...



Then I replaced power valve sockets, and all resistors changed to 1w Metal-film. And the cap that bridges pins 3 and 4 on V8 using the values that follow...

C46 .22uf 1000v

R10 5k6 1w.

R70 5k6 1w

R69 220k 1w

R68 33k 1w

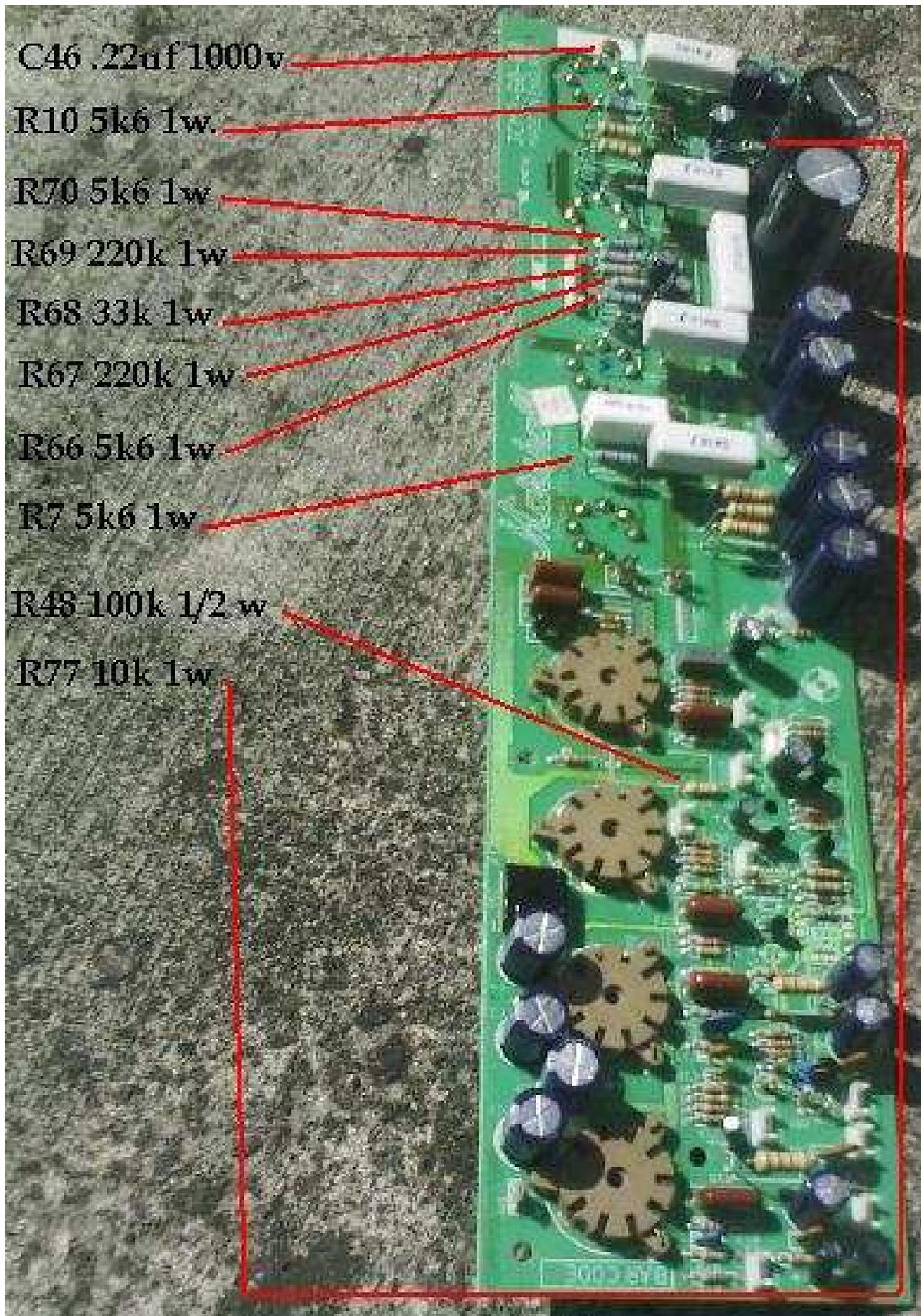
R67 220k 1w

R66 5k6 1w

R7 5k6 1w

R48 100k 1/2 w

R77 10k 1w





Right after this I plugged in the amp to an A.C. voltage limiter allowing a few seconds for the new caps to fill up slowly. Turned up the voltage to 120v, waited a few minutes and checked the Bias. It held steady for about an hour now, but then it'd start to drift like it did before. I felt really disappointed

So , after reading the posts that followed mine, I decided to contact the Marshall factory in England asking for instructions on how to get a new Pcboard. 2 days later I got a call from the Marshall dealer in my country requesting the model number and details.

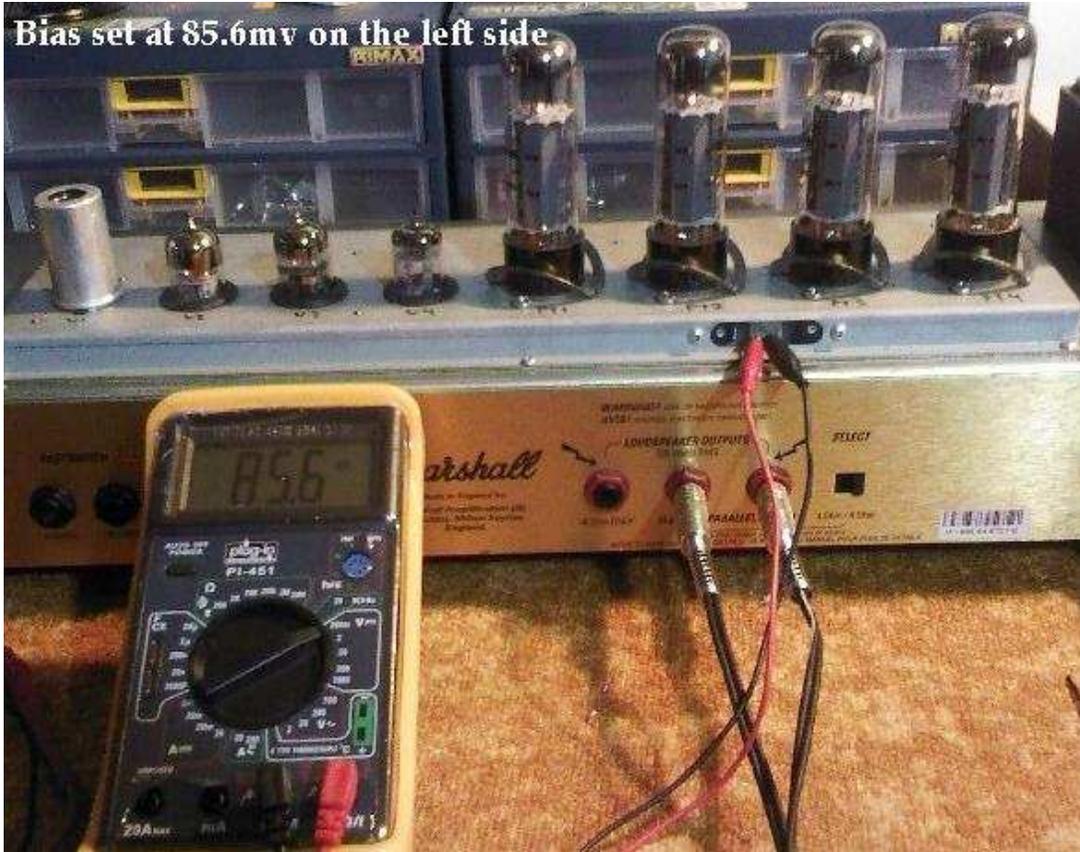
After a little more than 4 weeks I got the new board, it cost me \$235. (price + shipping + taxes + dealer profit) That was my second and biggest disappointment, It cost me an eye of the face!!!!

It came with pretty much the same component values except for R6 changed from 1ohm 5w power resistor to a 1ohm 1w carbon comp resistor and C37 and C36 from 47uf at 63v to 47uf at 100v and a slightly different lay-out and order in the signal paths, specially in the pre-amp stage. I see since 2001 the DSL100 hasn't gone through very noticeable changes, despite its fame as a problematic and hard-to-fix amp.

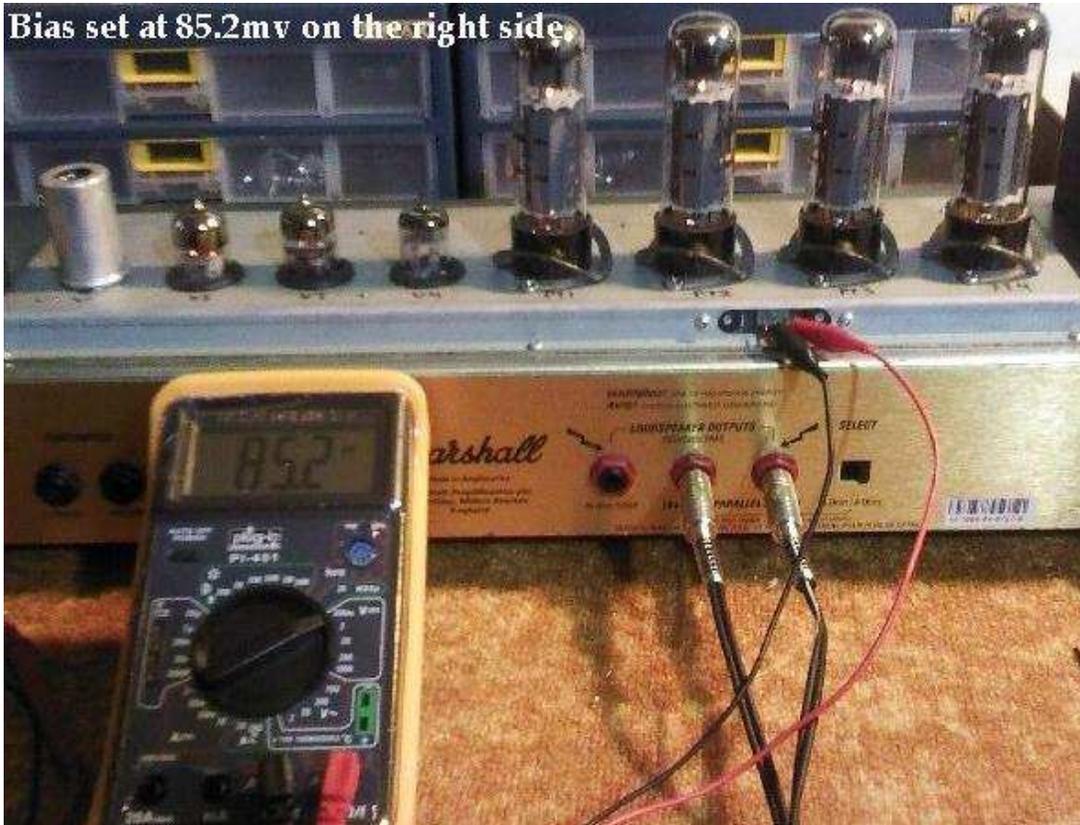
I did nothing but put the 3 fuses in, a new set of matched Electro Harmonics EL34's a JJ ECC83s graded high gain in V1, two regular JJ ECC83s in V2 and V3 and a balanced ECC83 in V4, then I got the amp back up and running. I waited 1 hour eye-checking everything and monitoring voltages all over . Everything was normal. I set the bias at 85mv per side (90mv as suggested by Marshall seems to be a bit too hot by most techs and users)

After 2 hours these were the readings I got :

Bias set at 85.6mv on the left side

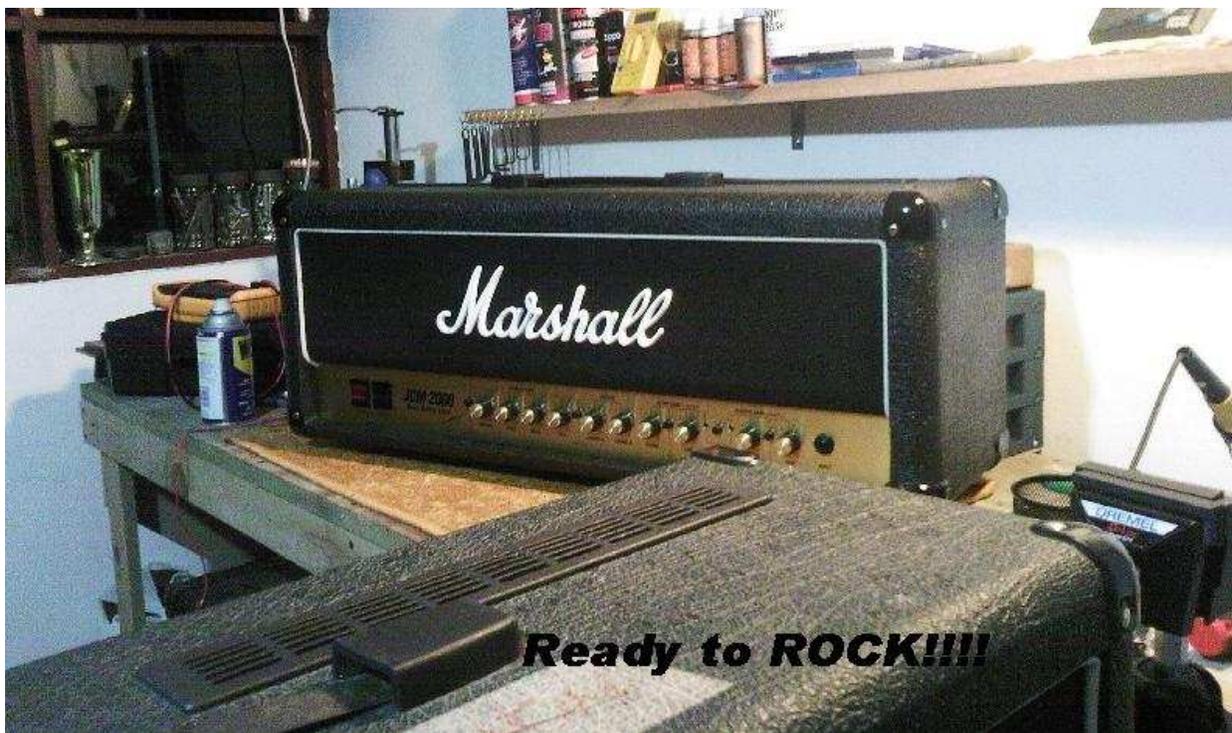


Bias set at 85.2mv on the right side



It worked!!! For the next 5 hours I kept on monitoring the Bias voltage and it was steady as desired!

Finally it was...



I took it to a band's rehearsal afraid to use it right straight in a live gig where the slightest failure would be a disaster.

I rehearsed for nearly 6 hours and it roared like a lion in heat!!!!



The next pictures show one happy player during the two following shows where the amp hit the stage!

Thanks to what I read here and the info received from such knowledgeable people, an amp that spent 6 years on the workbench of 6 different techs is finally where it belongs... On stage!!

Thanks a million mates!!

Cheers. Victor Soto.



